

Title (en)  
Homopolar variable reluctance sensor.

Title (de)  
Homopolarer veränderlicher Reluktanzgeber.

Title (fr)  
Capteur réductant homopolaire.

Publication  
**EP 0527673 B1 19950607 (FR)**

Application  
**EP 92402234 A 19920805**

Priority  
FR 9110174 A 19910809

Abstract (en)  
[origin: EP0527673A1] Homopolar variable reluctance sensor characterised in that it comprises a rotor made of a magnetic material comprising a cylindrical 12 body (10) fitted at a first end with a laminated part (13) comprising as many lobes (13A, 13B) as there are pairs of poles of the sensor, and at a second end with a ring (14), and a stator (20) made of a magnetic material comprising a cylindrical portion (21) fitted with an excitation winding (35) supplied with an A.C. voltage or current, the stator furthermore comprising a first ring (22), fitted with notches (23), the said first ring defining with the said laminated part (13), a first air gap (31), the stator comprising a second smooth ring (24) defining with the second rotor ring (14) a second air gap (32), the stator notches (23) being fitted with a winding chosen so that the voltage which is induced is sinusoidal and free from harmonics, the envelope of this voltage representing, to within a phase shift, the image of the position of the rotor with respect to the stator.  
<IMAGE>

IPC 1-7  
**G01D 5/20**

IPC 8 full level  
**G01D 5/20** (2006.01)

CPC (source: EP US)  
**G01D 5/2046** (2013.01 - EP US); **G01D 5/2053** (2013.01 - EP US)

Cited by  
FR3105400A1; EP0802398A1; FR2947048A1; EP0759539A1; WO2010149910A3

Designated contracting state (EPC)  
AT BE CH DE ES GB IT LI NL SE

DOCDB simple family (publication)  
**EP 0527673 A1 19930217; EP 0527673 B1 19950607**; AT E123566 T1 19950615; DE 69202838 D1 19950713; DE 69202838 T2 19951019; ES 2072728 T3 19950716; FR 2680242 A1 19930212; FR 2680242 B1 19931001; NO 923087 D0 19920806; NO 923087 L 19930210; US 5394042 A 19950228

DOCDB simple family (application)  
**EP 92402234 A 19920805**; AT 92402234 T 19920805; DE 69202838 T 19920805; ES 92402234 T 19920805; FR 9110174 A 19910809; NO 923087 A 19920806; US 92563292 A 19920807